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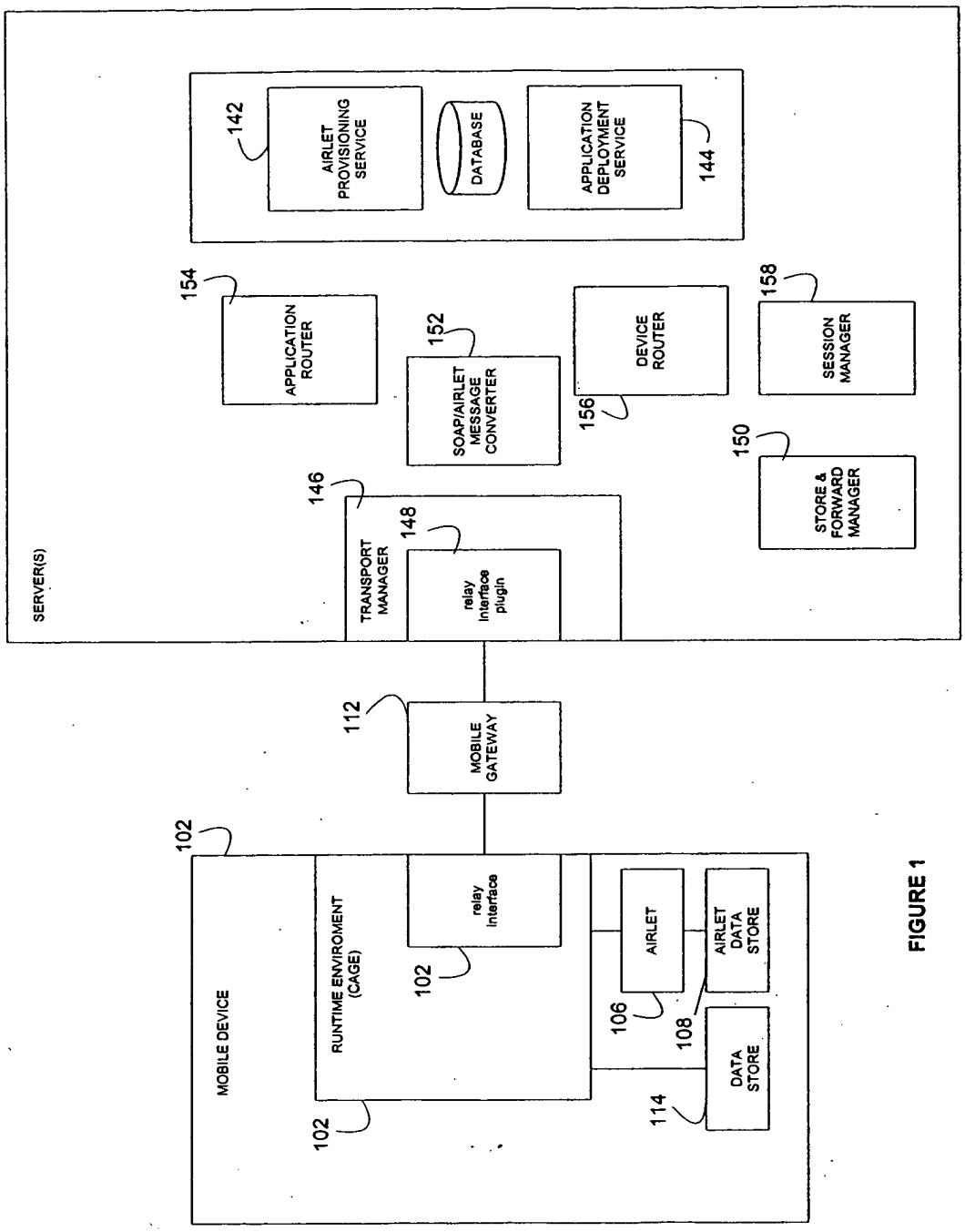

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relay interface
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DATA STORE
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FIGURE 1

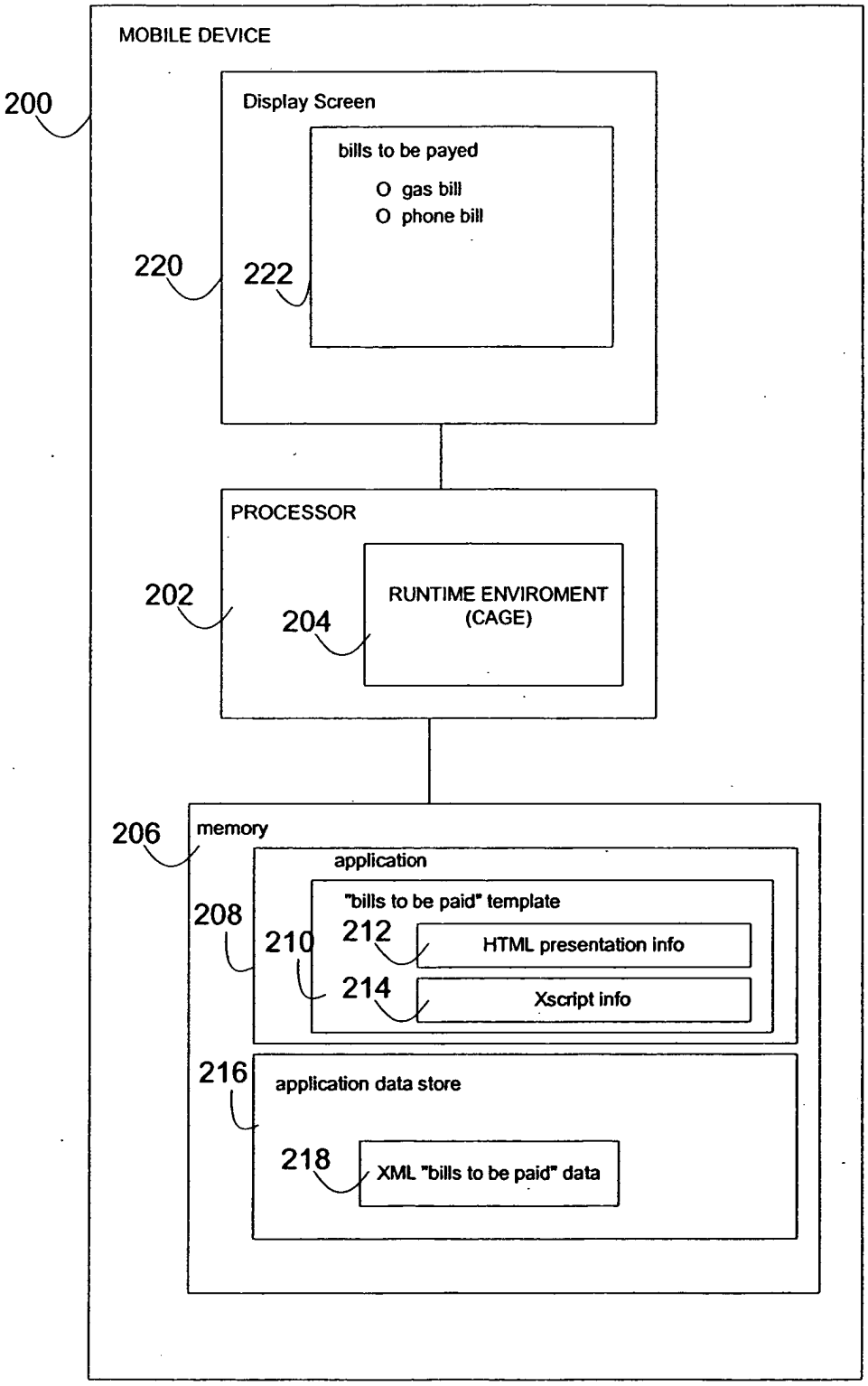

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bills to be payed
O gas bill
O phone bill
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PROCESSOR
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RUNTIME ENVIROMENT (CAGE)
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application
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"bills to be paid" template
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212
HTML presentation info
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Xscript info
216
application data store
218
XML "bills to be paid" data

FIGURE 2

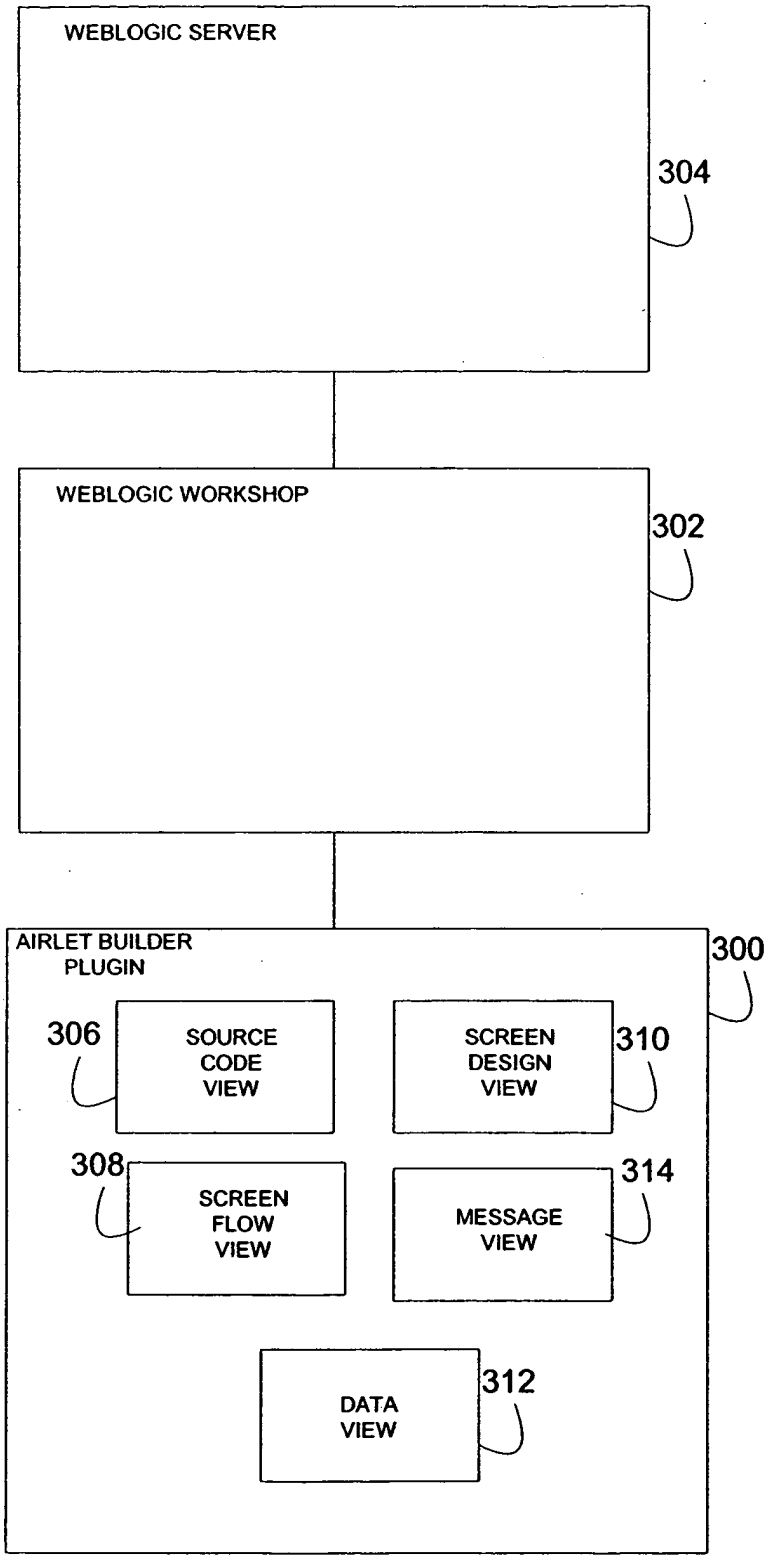

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SCREEN FLOW VIEW
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FIGURE 3

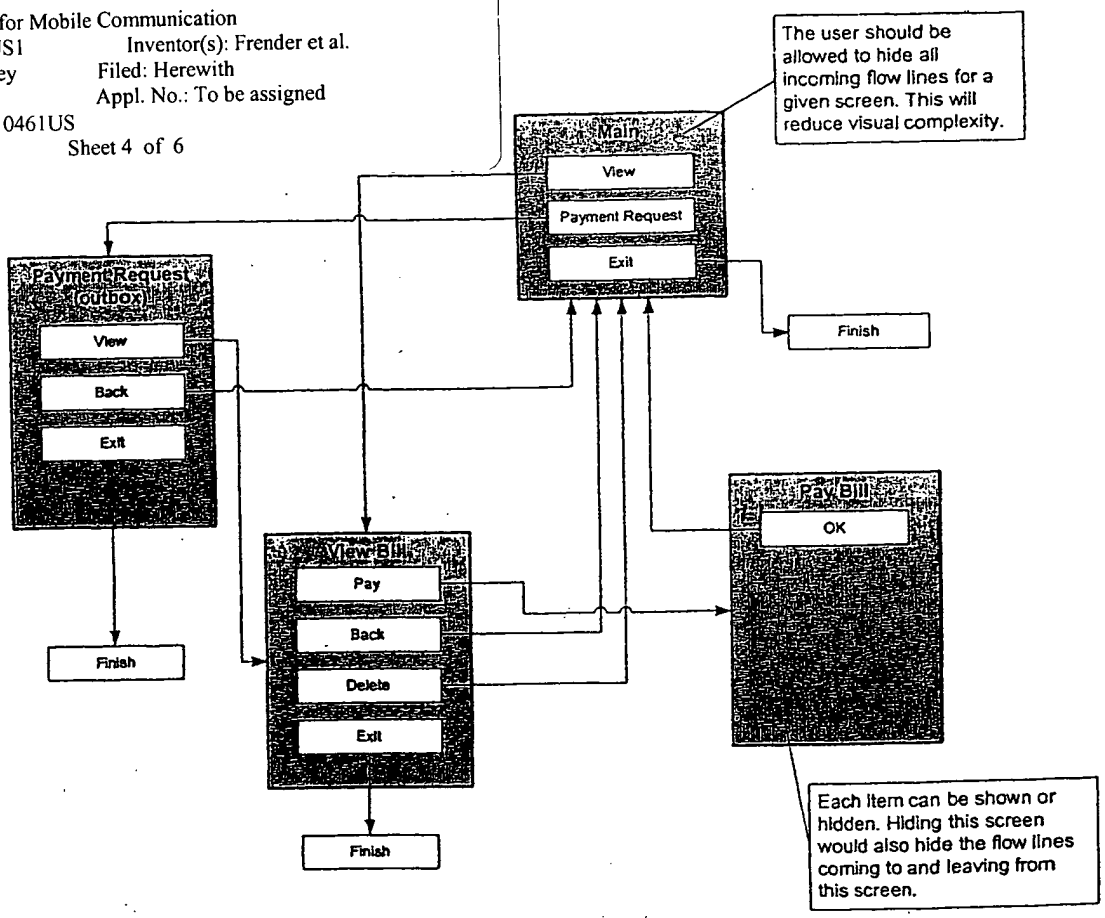


FIGURE 4A

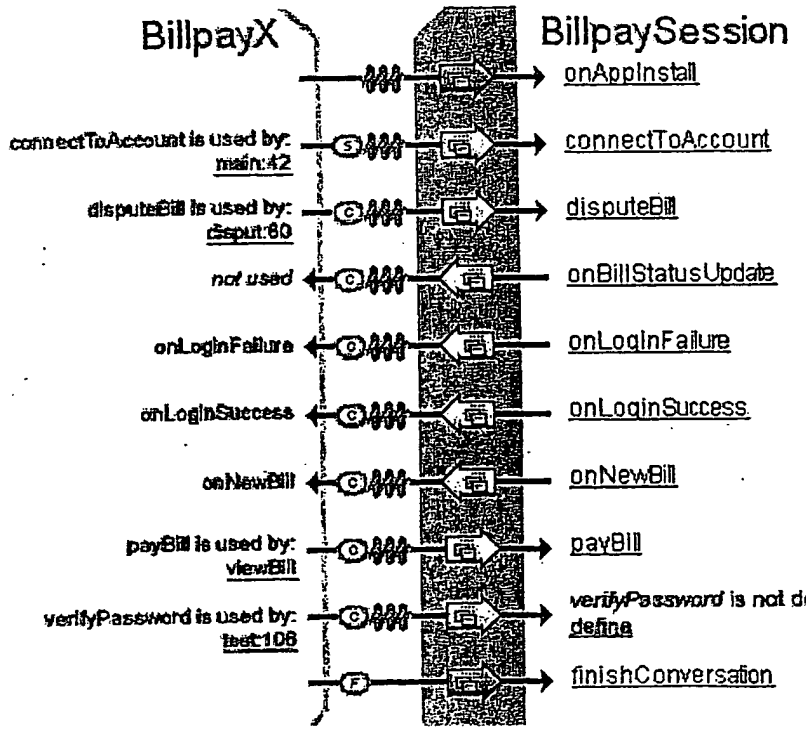


FIGURE 4B

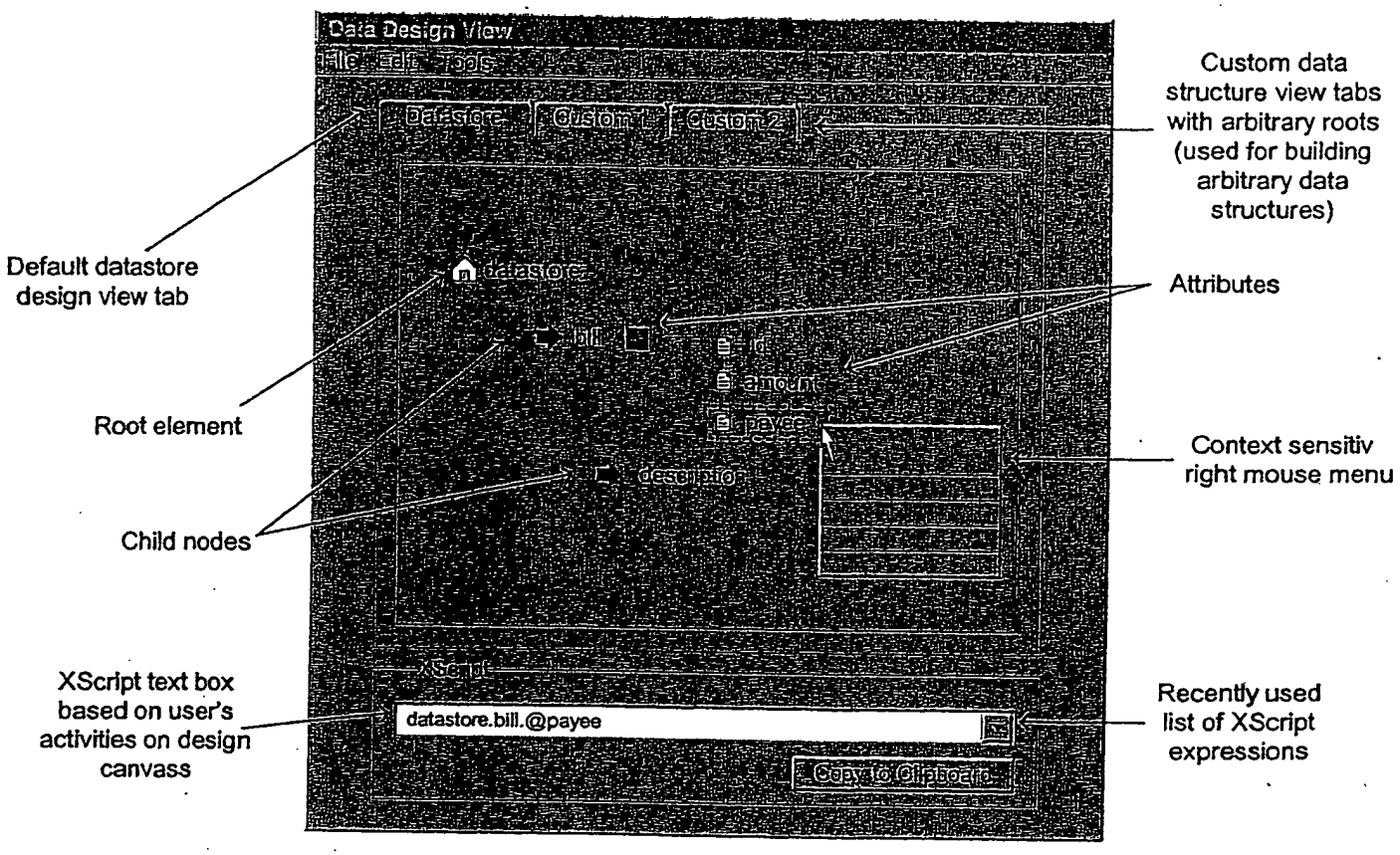

Data Design View
File Edit Tools
Datastore
Custom 1
Custom 2
datastore
bill
id
amount
payee
description
XScript
datastore.bill.@payee
Copy to Clipboard
Default datastore design view tab
Root element
Child nodes
XScript text box based on user's activities on design canvass
Custom data structure view tabs with arbitrary roots (used for building arbitrary data structures)
Attributes
Context sensitiv right mouse menu
Recently used list of XScript expressions

FIGURE 4C

```
<datastore>
        <payees type="B">
                <payee name="BEA Systems" id="14"/>
                <payee name="Best Buy" id="18"/>
                <payee name="Bill's Autos" id="19"/>
        </payees>
        <payees type="hotlist">
                <payee name="Qwest" id="145"/>
                <payee name="Xcel Energy" id="218"/>
                <payee name="NOT IN LIST- search" id="-1"/>
        </payees>
        <bill id="4" status="unpaid">
                <presenter>Qwest Communications</presenter>
                <ammount bill="224.17" agreed-to-pay="0" />
                <desc>$28 for phone line
                      $190 for DSL service
                      $6.17 for taxes</desc>
        </bill>
        <bill id="3" status="finding-payee">
                <presenter>Bill's Autos</presenter>
                <ammount bill="987.65" agreed-to-pay="0" />
                <desc>$14.65 for new fuel pump
                    $973 for labor</desc>
        </bill>
        <bill id="2" status="agreed-to-pay">
                <presenter>XCel Energy</presenter>
                <ammount bill="67.54" agreed-to-pay="67.54" />
                <payee id="218" />
                <desc>$60 electric
                      $7.54 gas</desc>
        </bill>
        <bill id="1" status="paid">
                <presenter>Qwest Communications</presenter>
                <ammount bill="224.17" agreed-to-pay="224.17" />
                <payee id="145" />
                <desc>$28 for phone line
                      190 for DSL service
                      $6.17 for taxes</desc>
        </bill>
/datastore>
```

FIGURE 4D